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TESTING
CNAS L6214

Global Testing Group

TEST REPORT
EN 62560
Self allasted LED-Lamp
for general lighting services by voltage > 50V Safety specifications

Report Number.....:	S01A25071006L00201
Date of issue.....:	2025-08-22
Total number of pages.....	27 pages
Name of Testing Laboratory preparing the Report.....:	Guangdong GTG Testing Technology Co., Ltd.
Applicant's name.....:	Shenzhen Fluence Lighting Technology Co., Ltd.
Address.....:	B701, Building 1, Tian'an Digital City Innovation Park, No.475 Huangge North Road, Huanggekeng Community, Longcheng Street,Longgang District, Shenzhen.
Test specification:	
Standard.....:	EN 62560:2012+A1:2015+A11:2019
Test procedure.....:	Type test
Non-standard test method.....:	N/A
Test Report Form No.....:	01-L-S020-2A
Test Report Form(s) Originator.....:	GTG
Master TRF.....:	Dated 2024-01-19

General disclaimer:

The test results presented in this report relate only to the object tested.

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The authenticity of this Test Report and its contents can be verified by contacting the GTG, responsible for this Test Report.

☒ **Testing Laboratory:**	Guangdong GTG Testing Technology Co., Ltd.	
Testing location/ address.....:	1-2/F., Building A, and 1/F., Building B, No.11, & Room 102, Unit 1, and Room 101 Unit 2, Building 1, No.9, Zongbu 2nd Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China	
Tested by (name, function, signature).....:	Jayson Zhou Project handler	
Reviewed by (name, function, signature).....:	George Liang Reviewer	
Approved by (name, function, signature).....:	Louis Lu Authorized Signatory	

Guangdong GTG Testing Technology Co., Ltd. * CERTIFICATE *

Test item description.....:	LED bulb
Trade Mark.....:	/
Manufacturer.....:	Same as applicant
Model/Type reference.....:	Please see report 'General product information' for details
Ratings.....:	220-240V~, 50/60Hz, ta:25°C,IP20 other detail see 'General product information' for details

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

List of Attachments (including a total number of pages in each attachment):

Attachment No. 1: Test report of European group differences and National differences;

Attachment No. 2: Test report of Blue light hazard according to IEC TR 62778:2014;

Attachment No. 3: Photo documentation.

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
IEC 62560:2011/AMD1:2015 EN 62560:2012+A1:2015+A11:2019 EN 62493:2015 IEC TR 62778:2014 The submitted sample was LED-light-source technology, they were found to comply with the requirement of EN 62493:2015 without test.	Guangdong GTG Testing Technology Co., Ltd. 1-2/F., Building A, and 1/F., Building B, No.11, & Room 102, Unit 1, and Room 101 Unit 2, Building 1, No.9, Zongbu 2nd Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China.

Summary of compliance with National Differences (List of countries addressed):

☒ The product fulfils the requirements of European Group differences

EN 62560:2012+A1:2015+A11:2019

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

LED bulb

Model:A60-QZG-08F01-30-E27

Rated parameters:220-240V~, 50/60Hz, 8W

ta:25°C

ShenzhenFluenceLighting Technology Co., Ltd.

B701, Building 1, Tian'an Digital City Innovation Park, No.475 Huangge North Road, Huanggekeng Community, Longcheng Street,Longgang District, Shenzhen.

Remark: The marking label for other model is same as above, except the model name and power.

Height of CE mark at least 5mm, height of WEEE symbol should not less than 7mm, height of other marks at least 5mm, height of letters and numerals at least 2mm.

According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

Importer's name and address was affixed on the surface of product:

Importer: XXXX

Address: XXXX

Test item particulars.....	**:**
Classification of installation and use.....	**:** --
Supply Connection.....	**:** E27 lamp cap
.....	**:**
Possible test case verdicts:	
- test case does not apply to the test object.....	**:** N/A
- test object does meet the requirement.....	**:** P (Pass)
- test object does not meet the requirement.....	**:** F (Fail)
Testing.....	**:**
Date of receipt of test item.....	**:** 2025-07-20
Date (s) of performance of tests.....	**:** 2025-07-20 to 2025-08-04

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.
Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

Name and address of factory (ies).....	**:** Huizhou Fluence Lighting Technology Co., Ltd. 4F, 1F, Workshop No. 3, Xingping West Road, Dongjiang Hi-tech Industrial Park, Zhongkai Hi-Tech Zone, Huizhou

General product information and other remarks:

- Self-ballasted LED lamps.
- 220-240V~50/60Hz, IP65, ta:25°C
- Unless otherwise specified, the model A60-QZG-08F01-30-E27 was selected as representative model to perform all tests, the model T42-N08-WS1-3000K,C35-QZG-04F01-30-E14 and G9L-QZG-04C01-30-G9 were to perform partial test.

All models is suitable for water contact,and IP65 for parts except lamp cap.
Model list:

Model	Power (W)	Lamp cap	Size（mm)	Weight(g)
G9S-QZG-03C01-27-G9	2.5	G9	Φ17x54	19
G9S-QZG-03C01-30-G9	2.5	G9	Φ17x54	19
G9S-QZG-03C01-35-G9	2.5	G9	Φ17x54	19
G9S-QZG-03C01-40-G9	2.5	G9	Φ17x54	19
G9S-QZG-03C01-50-G9	2.5	G9	Φ17x54	19
G9S-QZG-03C01-60-G9	2.5	G9	Φ17x54	19
G9S-QZG-03F01-27-G9	2.5	G9	Φ17x54	19
G9S-QZG-03F01-30-G9	2.5	G9	Φ17x54	19
G9S-QZG-03F01-35-G9	2.5	G9	Φ17x54	19
G9S-QZG-03F01-40-G9	2.5	G9	Φ17x54	19
G9S-QZG-03F01-50-G9	2.5	G9	Φ17x54	19
G9S-QZG-03F01-60-G9	2.5	G9	Φ17x54	19
G9L-QZG-04C01-27-G9	3	G9	Φ17x68	25
G9L-QZG-04C01-30-G9	3	G9	Φ17x68	25
G9L-QZG-04C01-35-G9	3	G9	Φ17x68	25
G9L-QZG-04C01-40-G9	3	G9	Φ17x68	25
G9L-QZG-04C01-50-G9	3	G9	Φ17x68	25
G9L-QZG-04C01-60-G9	3	G9	Φ17x68	25
G9L-QZG-04F01-27-G9	3	G9	Φ17x68	25

G9L-QZG-04F01-30-G9	3	G9	Φ17x68	25
G9L-QZG-04F01-35-G9	3	G9	Φ17x68	25
G9L-QZG-04F01-40-G9	3	G9	Φ17x68	25
G9L-QZG-04F01-50-G9	3	G9	Φ17x68	25
G9L-QZG-04F01-60-G9	3	G9	Φ17x68	25
C35-QZG-04C01-27-E14	4	E14	Φ35x100	16
C35-QZG-04C01-30-E14	4	E14	Φ35x100	16
C35-QZG-04C01-35-E14	4	E14	Φ35x100	16
C35-QZG-04C01-40-E14	4	E14	Φ35x100	16
C35-QZG-04C01-50-E14	4	E14	Φ35x100	16
C35-QZG-04C01-60-E14	4	E14	Φ35x100	16
C35-QZG-04F01-27-E14	4	E14	Φ35x100	16
C35-QZG-04F01-30-E14	4	E14	Φ35x100	16
C35-QZG-04F01-35-E14	4	E14	Φ35x100	16
C35-QZG-04F01-40-E14	4	E14	Φ35x100	16
C35-QZG-04F01-50-E14	4	E14	Φ35x100	16
C35-QZG-04F01-60-E14	4	E14	Φ35x100	16
T42-N08-WS1-3000K	8	E27	Φ42x95	27
T42-N08-WS1-4000K	8	E27	Φ42x95	27
T42-N08-WS1-6000K	8	E27	Φ42x95	27
T42-N08-CS1-3000K	8	E27	Φ42x95	27
T42-N08-CS1-4000K	8	E27	Φ42x95	27
T42-N08-CS1-6000K	8	E27	Φ42x95	27
A60-QZG-06F01-27-E27	6	E27	Φ60x110	35
A60-QZG-06F01-30-E27	6	E27	Φ60x110	35
A60-QZG-06F01-35-E27	6	E27	Φ60x110	35
A60-QZG-06F01-40-E27	6	E27	Φ60x110	35
A60-QZG-06F01-50-E27	6	E27	Φ60x110	35
A60-QZG-06F01-60-E27	6	E27	Φ60x110	35
A60-QZG-06C01-27-E27	6	E27	Φ60x110	35
A60-QZG-06C01-30-E27	6	E27	Φ60x110	35
A60-QZG-06C01-35-E27	6	E27	Φ60x110	35
A60-QZG-06C01-40-E27	6	E27	Φ60x110	35
A60-QZG-06C01-50-E27	6	E27	Φ60x110	35
A60-QZG-06C01-60-E27	6	E27	Φ60x110	35
A60-QZG-08F01-E27	8	E27	Φ60x110	35
A60-QZG-08C01-E27	8	E27	Φ60x110	35
A60-QZG-08F01-27-E27	8	E27	Φ60x110	35
A60-QZG-08F01-30-E27	8	E27	Φ60x110	35
A60-QZG-08F01-35-E27	8	E27	Φ60x110	35
A60-QZG-08F01-40-E27	8	E27	Φ60x110	35
A60-QZG-08F01-50-E27	8	E27	Φ60x110	35
A60-QZG-08F01-60-E27	8	E27	Φ60x110	35
A60-QZG-08C01-27-E27	8	E27	Φ60x110	35
A60-QZG-08C01-30-E27	8	E27	Φ60x110	35
A60-QZG-08C01-35-E27	8	E27	Φ60x110	35
A60-QZG-08C01-40-E27	8	E27	Φ60x110	35
A60-QZG-08C01-50-E27	8	E27	Φ60x110	35
A60-QZG-08C01-60-E27	8	E27	Φ60x110	35

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Clause	Requirement + Test	Result - Remark	Verdict

4	**GENERAL REQUIREMENTS**		P
4.1	The lamp shall be so designed and constructed that in normal use cause no danger to the user.		P
4.2	Self allasted LED-Lamp are non-repairable.		P

5	**MARKING**		**P**
5.1	Mandatory marking		P
	- mark of origin		P
	- rated supply voltage (V)..... :	220-240V~	P
	- rated wattage (W)..... :	See General product information	P
	- rated frequency (Hz)..... :	50/60Hz	P
5.2	Addition marking		P
	- rated current (A)..... :	See General product information	P
	- weight significantly higher		P
	- special conditions or restrictions		P
	Not suitable for dimming; symbol used 		P
	- not suitable for water contact 		P
5.3	Marking durable and legible		P
	rubbing 15 s water, 15 s petroleum; marking legible		P

6	**INTERCHANGEABILITY**		P
6.1	**Cap interchangeability in accordance with IEC 60061-1**		P
	Gauge in accordance with IEC 60061-3		P
6.2	**Bending moment and mass imparted by the lamp at the lampholder**		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Bending moment imparted by the lamp at the lampholder (Nm)..... :	E27: 0.112Nm<2Nm(A60-QZG-08F01-30-E27) E14: 0.02Nm<1Nm(C35-QZG-04F01-30-E14)	P
	Mass not exceeding value table 2 or as specified in IEC 60061-1 (kg)..... :	E27: Max. 0.035kg(A60-QZG-08F01-30-E27)	P
7	**PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS**		P
	Internal, basic insulated or live metal parts not accessible		P
	Tested with a test finger with a force of 10 N		P
	Compliance checked with appropriate gauges		P
8	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		P
8.2	After storage 48 h at 91- 95% relative humidity and 20- 30 °C measuring of insulation resistance with d.c. 500 V (MΩ):		P
	≥ 4 MΩ for double or reinforced insulation..... :	100MΩ	P
8.3	Immediately after clause 8.2 electric strength test for 1 min		P
	Double or reinforced insulation, 4U + 2000 V	2960V	P
	No flashover or breakdown		P
9	**MECHANICAL STRENGTH**		P
9.2.1	Torsion resistance of unused lamps		P
	B15d or E14 Cap..... 1,15 Nm	E14(C35-QZG-04F01-30-E14)	P
	B22d, E26, E26d or E27 Cap.....3,0 Nm	E27(A60-QZG-08F01-30-E27)	P
	E11 or E12 Cap.....0,8 Nm		N/A
	E17 Cap.....1,5 Nm		N/A
	E39 or E40 Cap.....5,0 Nm		N/A
	GX53 Cap.....3,0 Nm		N/A
9.3	**Compliance criteria**		P
	Clause 8 shall comply after the mechanical strength test.		P
9.4	**Axial strength of Edison caps**		P
	After full insertion into the gauge an axial force of Table 4 is applied to the central contact (N)..... :	E27: 120N E14: 80N	P
	The insulation around the central contact shall remain intact		P
10	**CAP TEMPERATURE RISE**		P
	The cap temperature rise Δt_s of the lamp shall not exceed 120 K.		P

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Clause	Requirement + Test	Result - Remark	Verdict

11	**RESISTANCE TO HEAT**		P
	Parts of insulating material providing protection against electric shock, retaining live parts in position, ball-pressure test:		P

12	**RESISTANCE TO FLAME AND IGNITION**		P
	External parts of insulating material preventing electric shock glow-wire test 650 °C		P
13	**FAULT CONDITIONS**		**P**
13.2	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	P
13.3	When operated under fault conditions the lamp		P
	- does not emit flames or molten material		P
	- does not produce flammable gases or smoke		P
	- live parts not accessible		P
	After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1.....:	100MΩ	P

14 (16)	**CREEPAGE DISTANCES AND CLEARANCES**		**P**
	Creepage distances and clearances according to IEC 61347-1	(see appended table)	P
	Conductive accessible parts according to IEC 60598-1	(see appended table)	P

15	**ABNORMAL OPERATION**		**P**
	Non-dimmable self allasted lamps are tested on a dimmer or an electronic switch according the test circuit shown in Figure 8		P
	Operate the lamp for 8 h at most onerous dimming level		P
	When operated under abnormal operation the lamp		P
	- does not catch fire		P
	- does not produce flammable gases		P
	- live parts not accessible		P

16	**TEST CONDITIONS FOR DIMMABLE LAMPS**		**N/A**
	Test are carried out at maximum power setting for Clause 10 and Clause 17		N/A

17	**PHOTOBIOLOGICAL SAFETY**		**P**
17.1	**UV radiation**		N/A
	The LED lamp doesn’t exceed 2mW/klm		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.2	**Blue light hazard**		P
	Assessed according to IEC TR 62778		P
	LED lamps shall be RG0 or RG1	RG0(A60-QZG-08F01-30-E27) RG1(G9L-QZG-04C01-30-G9)	P
18	**INGRESS PROTECTION**		N/A
18.1	Lamps shall be suitable for water contact unless marked with Figure 6		N/A
18.2	The lamp is subjected to an IPX4 test according to IEC 60598-1		N/A
	The lamp complies with the compliance provisions of 9.2 of IEC 60598-1		N/A
	Lamps constructed so that it is sealed to exclude water need not to be tested		N/A

11	**TABLE: Ball Pressure Test of Thermoplastics**		**P**
Allowed impression diameter (mm) .....:		2mm	—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Plastic part near the lamp cap(A60-QZG-08F01-30-E27)	See annex 1	125°C	1.0
Plastic housing(G9L-QZG-04C01-30-G9)	See annex 1	80°C	0.9
Bobbin(A60-QZG-08F01-30-E27)	See annex 1	125°C	1.2
Supplementary information:			

12	**TABLE: Resistance to heat and fire - Glow wire tests**			**P**
Object/ Part No./ Material	**Manufacturer/ trademark**	**Glow wire test (GWT); (°C)**		**Verdict**
		650		
		te	**ti**	
Plastic housing(G9L-QZG-04C01-30-G9)	See annex 1	0	0	P
Plastic part near the lamp cap(A60-QZG-08F01-30-E27)	See annex 1	0	0	P
Bobbin(A60-QZG-08F01-30-E27)	See annex 1	0	0	P

13	**TABLE: tests of fault conditions**		**P**
Part	Simulated fault	Result	Hazard
EC2	SC	F1 open, no hazard	~~YES~~/NO

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Clause	Requirement + Test	Result - Remark	Verdict

EC1	SC	F1 open, no hazard	~~YES~~/NO
Output(+/-)	SC	Protected, no hazard	~~YES~~/NO

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

14	TABLE: Clearance And Creepage Distance Measurements					P
clearance cl and creepage distance dcr at/of:	**Up (V)**	**U r.m.s. (V)**	**Required cl (mm)**	**cl (mm)**	**required dcr (mm)**	**cr (mm)**
Between L and N	240	240	1.5	5.2	2.5	5.2
Between two pin of fuse	240	240	1.5	5.2	2.5	5.2
Live part to external surface of lamp cover	240	240	3.0	6.8	5.0	6.8
Supplementary information:						

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1 **TABLE: Critical components information** P

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity[1)]
Plastic part near the lamp cap	B	Hangzhou BOSOM New Materials Technology Co Ltd	A190G6 (k)(f1)	PA6;V-0	--	UL E333445
Heat-shrinkable tube	B	Dongguan Yongchao New Material Co Ltd	YC-DWT	600V,VW-1	--	UL E484474
Fuse resistor	B	Jiangxi Xinxuyuan Electronics Co., LTD	RXF-1WS	33Ω	--	UL E522284
Driver PCB	B	KINGBOARD LAMINATES HOLDINGS LTD	KB-5150	V-0; 130°C	--	UL E123995
LED	B	HuiZou FluenceSmart LightingTechnology PLC	8D8P	VF:9V; IF:15mA; CCT:3000K;	IEC TR 62778	Tested with appliance
Plastic enclosure	B	CHI MEI Corporation	PC-110	1.5 mm; V-2	--	UL E56070
Bobbin	B	Zhongshan Xinzhiyuan Electronics Co LTD	T375HF	V-2; 130°C	IEC/EN 61347-1 IEC/EN 61347-2-13	Tested with appliance
Insulation tape	B	Shen Zhen Xinhuahui Electronic Materials Co LTD	HTM	130°C	--	UL E328315

Supplementary information:

[1)] Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

A - The component is replaceable with another one, also certified, with equivalent characteristics

B - The component is replaceable if authorised by the test house

C - Integrated component tested together with the appliance

D - Alternative component

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

Annex 2	**Cap temperature rise and normal heating test**		
	Type reference..... :	A60-QZG-08F01-30-E27	—
	Lamp used.....:	LED lamp	—
	Lamp control gear used..... :	Integral controlgear	—
	Mounting position of luminaire	Cap up	
	Table: measured temperatures corrected for t_a = 25 °C:		P
	- test 1: test voltage..... :	240V,8W	—

test point	Normal			
	--	--	Measured value(°C)	Limit value(°C)
Plastic part near the lamp cap	--	--	31.1	Ref.
Lamp cap	--	--	53.5	145
Lamp cap (△t)	--	--	28.7K	(120K)
EC1	--	--	65.7	105
EC2	--	--	68.8	105
T1 winding	--	--	69.6	130
T1 bobbin	--	--	74.3	130
PCB	--	--	83.6	130
Ambient Temperature	--	--	25.0	--

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

Annex 2	**Cap temperature rise and normal heating test**		
	Type reference..... :	C35-QZG-04F01-30-E14	—
	Lamp used.....:	LED lamp	—
	Lamp control gear used..... :	Integral controlgear	—
	Mounting position of luminaire	Cap up	
	Table: measured temperatures corrected for t_a = 25 °C:		P
	- test 1: test voltage..... :	240V,4W	—

test point	Normal			
	--	--	Measured value(°C)	Limit value(°C)
Plastic part near the lamp cap	--	--	32.8	Ref.
Lamp cap	--	--	56.3	145
Lamp cap (△t)	--	--	31.4K	(120K)
EC1	--	--	65.0	105
PCB	--	--	65.5	130
Ambient Temperature	--	--	25.0	--

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

Annex 2	**Cap temperature rise and normal heating test**		
	Type reference..... :	T42-N08-WS1-3000K	—
	Lamp used.....:	LED lamp	—
	Lamp control gear used..... :	Integral controlgear	—
	Mounting position of luminaire	Cap up	
	Table: measured temperatures corrected for t_a = 25 °C:		P
	- test 1: test voltage..... :	240V,8W	—

test point	Normal			
	--	--	Measured value(°C)	Limit value(°C)
Plastic part near the lamp cap	--	--	31.1	Ref.
Lamp cap	--	--	50.2	145
Lamp cap (△t)	--	--	25.1K	(120K)
EC1	--	--	66.9	105
EC2	--	--	69.0	105
T1 winding	--	--	76.9	130
T1 bobbin	--	--	78.1	130
PCB	--	--	74.0	130
Ambient Temperature	--	--	25.0	--

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

Annex 2	**Cap temperature rise and normal heating test**		
	Type reference..... :	G9L-QZG-04C01-30-G9	—
	Lamp used.....:	LED lamp	—
	Lamp control gear used..... :	Integral controlgear	—
	Mounting position of luminaire	Cap up	
	Table: measured temperatures corrected for t_a = 25 °C:		P
	- test 1: test voltage..... :	240V,3W	—

test point	Normal			
	--	--	Measured value(°C)	Limit value(°C)
Plastic part near the lamp cap	--	--	29.7	Ref.
Lamp cap	--	--	32.1	145
Lamp cap (△t)	--	--	7.2K	(120K)
Plastic enclosure			33.6	Ref.
Ambient Temperature	--	--	25.0	--

Attachment No. 1			
Clause	Requirement + Test	Result - Remark	Verdict

ATTCHMENT TO TEST REPORT IEC 62560 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES		
Differences according to ..... :	EN 62560:2012+A11:2019	
	Scope	—
	Add at the end the following note: NOTE Z1 Radio equipment can be part of the Self-Ballasted lamp.	—
7	**Protection against accidental contact with live parts**	—
	After the title of Clause 7 add the following new sub clause title 7.Z1	—
	7.Z1 General At the end of Clause 7 add the following new sub Clauses 7.Z2, 7.Z2.1 and 7.Z2.2 7.Z2 Fixing of conductors 7.Z2.1 Requirements The fixing of the conductors inside the lamp shall be such that, if a conductor becomes loose or detached, the conductor cannot reduce clearances or creepage distances below the values as specified in 14. For the purpose of these requirements, it is assumed that: – two independent fixings will not become loose or detached at the same time; and – parts fixed by means of screws or nuts provided with self-locking washers or other means of locking are not liable to become loose or detached. NOTE Spring washers and the like can provide satisfactory locking.	P
	7.Z2.2 Compliance criteria Compliance is checked by inspection, by measurement or in case of doubt by applying a force of 10 N in the most unfavourable direction. EXAMPLE Constructions regarded as meeting the requirements include: – close-fitting tubing (for example, a heat shrink or rubber sleeve), applied over the wire and its termination; – conductors connected by soldering and held in place near to the termination, independently of the soldered connection; – conductors connected by soldering and securely hooked in before soldering, provided that the hole through which the conductor is passed is not unduly large; – conductors connected to screw terminals, with an additional fixing near to the terminal that clamps, in the case of stranded conductors, the insulation and not only the conductors; – conductors connected to screw terminals and provided with terminators that are unlikely to become free (for example, ring lugs crimped onto the conductors), however, the pivoting of such terminators is considered; or – short rigid conductors that remain in position when the terminal screw is loosened.	P
	CENELEC COMMON MODIFICATIONS (EN)	—

Attachment No. 1			
Clause	Requirement + Test	Result - Remark	Verdict
	Lamps with E11, E12, E17, E26, E26d; E39 are excluded from this standard		N/A
	Delete from the contents page the line on Annex B.		N/A
	Delete from Clause 5.2 the item a).		N/A
	Include in Clause 14 the Corrigendum January 2012.		P
	Delete Annex B.		N/A
ZB	**ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)**		—
	No special National conditions		N/A
ZC	**ANNEX ZC, NATIONAL DEVIATIONS (EN)**		—
	No National deviations		N/A

IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict

7	**MEASUREMENT INFORMATION FLOW**		**P**
7.1	**Basic flow**		**P**
	Law of conservation of luminance' applied		P
	Use of only true luminance/radiance values		P
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		P
	In case E_{thr} value for RG2 was established the peak value was derived from angular light distribution		N/A
7.2	**Conditions for the radiance measurement**		**P**
	Standard condition applied (200mm distance, 0,011rad field of view)		P
	Non-standard condition applied		N/A
7.3	**Special cases (I): Replacement by a lamp or LED module of another type**		P
	Light source is a white light source		P
	Evaluation done based on highest luminance		P
	Evaluation done based on CCT value		P
7.4	**Special cases (II): Arrays and clusters of primary light sources**		N/A
	LED package is evaluated as ..... :	☐ RG0 unlimited ☐ RG1 unlimited	N/A
	E_{thr} of LED package applies to array		N/A
8	**RISK GROUP CLASSIFICATION**		**P**
	Risk group achieved:		P
	-... Risk Group 0 unlimited	A60-QZG-08F01-30-E27	P
	-... Risk Group 1 unlimited	G9L-QZG-04C01-30-G9	P
	- E_{thr} ..... (lx) : Distance to reach RG1..... (m) :		N/A

IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict

	TABLE: Spectroradiometric measurement		**P**
	Measurement performed on:	☐ **LED package** ☐ **LED module** ☒ **Lamp** ☐ **Luminaire**	
	Model number.....:	A60-QZG-08F01-30-E27, G9L-QZG-04C01-30-G9	
	Test voltage (V).....:	240V~	—
	Test current (mA).....:	/	—
	Test frequency (Hz).....:	50/60Hz	—
	Ambient, t (°C).....:	25℃	—
	Measurement distance.....:	☒ 20 cm ☐ ... cm	—
	Source size .....:	☒ Non-small ☐ Small : .... mm	—
	Field of view .....:	☐ 100 mrad ☒ 11 mrad ☐ 1,7 mrad (for small sources)	—

Item	Symbol	Units	Result	Remark
A60-QZG-08F01-30-E27				
Correlated colour temperature	CCT	K	/	
x/y colour coordinates	/	/	/	/
Blue light hazard radiance	L_B	$W/(m^2 \cdot sr^1)$	6.797e+000	RG0
Blue light hazard irradiance	E_B	W/m^2	2.239e-001	/
Luminance	L	cd/m^2	2.224e+004	/
Illuminance	E	lx	733	/
G9L-QZG-04C01-30-G9				
Correlated colour temperature	CCT	K	/	
x/y colour coordinates	/	/	/	/
Blue light hazard radiance	L_B	$W/(m^2 \cdot sr^1)$	1.531e+002	RG1
Blue light hazard irradiance	E_B	W/m^2	1.991e-001	/
Luminance	L	cd/m^2	4.861e+005	/
Illuminance	E	lx	632	/
Supplementary information:-				

Details of: Outlook view
Remark: Representative model: A60-QZG-08F01-30-E27

Details of: Outlook view
Remark: Representative model: A60-QZG-08F01-30-E27

Photo Attachment No. 3

Details of: Outlook view

Remark: Representative model: A60-QZG-08F01-30-E27

Details of: Internal view

Remark: Representative model: A60-QZG-08F01-30-E27

Attachment No. 3: Photo

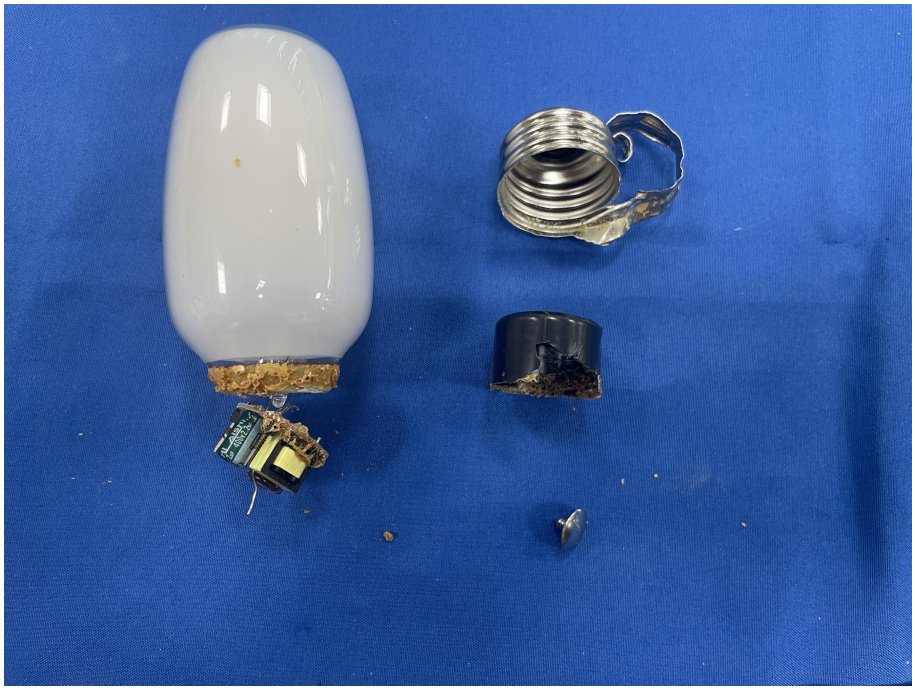
Details of: Outlook view
Remark: Representative model: T42-N08-WS1-3000K

Details of: Outlook view
Remark: Representative model: T42-N08-WS1-3000K

Photo Attachment No. 3

Details of: Internal view

Remark: Representative model: T42-N08-WS1-3000K



Details of: Internal view

Remark: Representative model: T42-N08-WS1-3000K

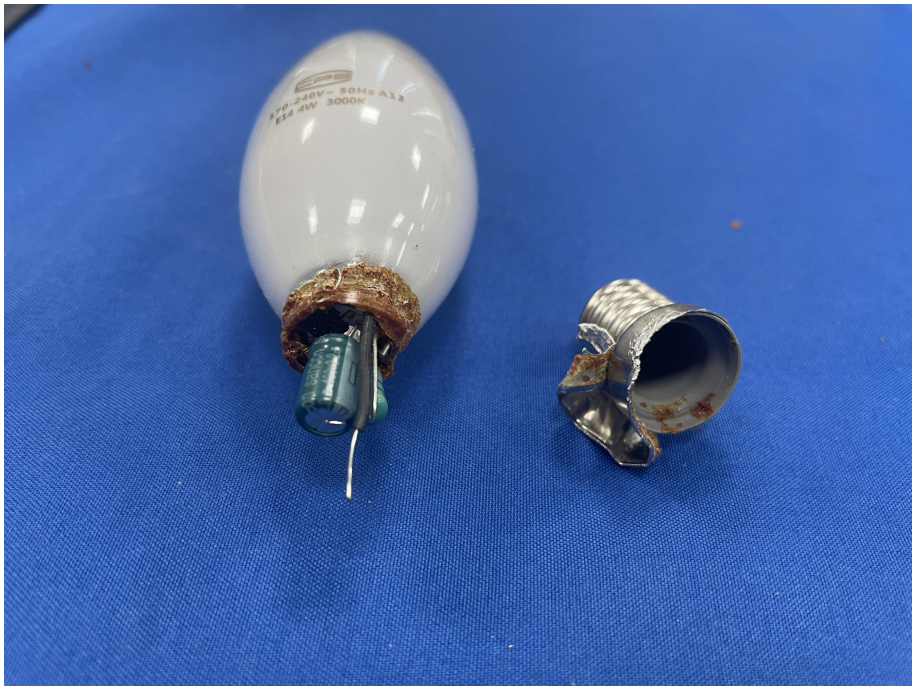
Details of: Outlook view
Remark: Representative model: C35-QZG-04F01-30-E14

Details of: Outlook view
Remark: Representative model: C35-QZG-04F01-30-E14

Photo Attachment No. 3

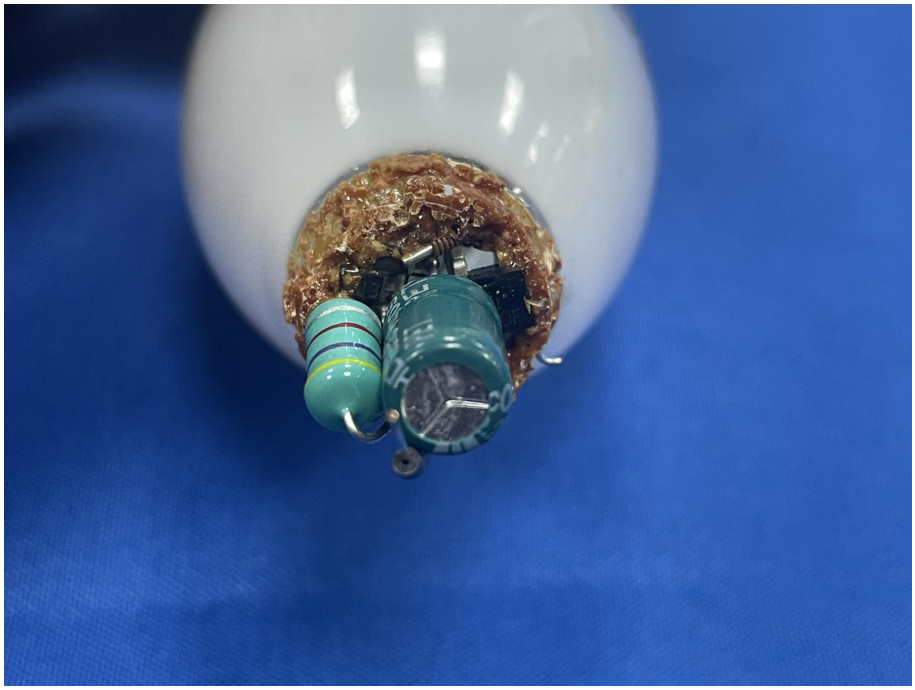
Details of: Internal view

Remark: Representative model: C35-QZG-04F01-30-E14



Details of: Internal view

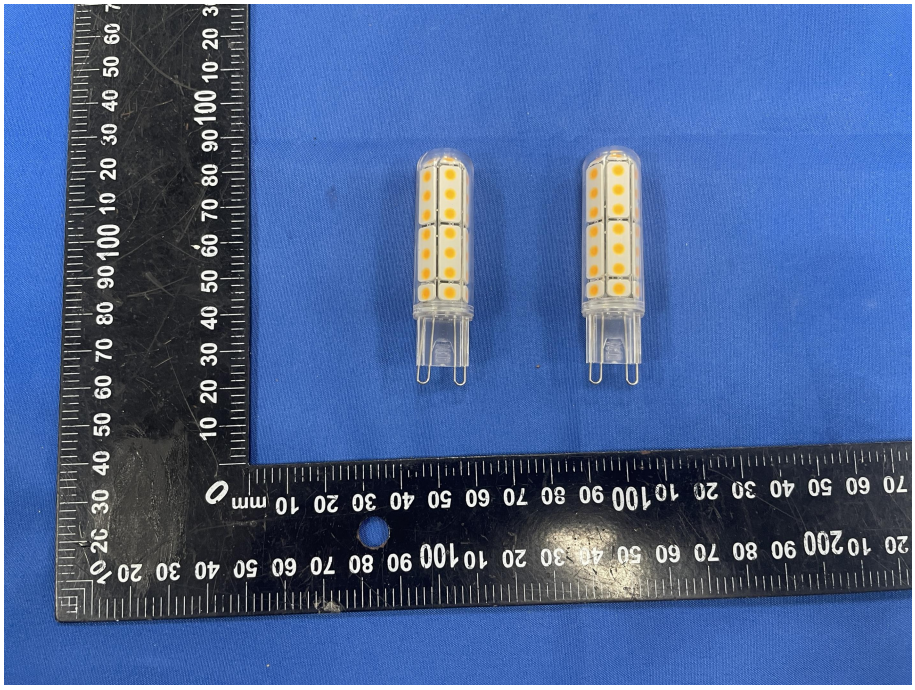
Remark: Representative model: C35-QZG-04F01-30-E14



Attachment No. 3: Photo

Details of: Outlook view

Remark: Representative model: G9L-QZG-04C01-30-G9



---End of Report---